

85100277c

✓ Southwest Educational Media  
Foundation, Inc.  
7146 Newberry

Before the  
FEDERAL COMMUNICATIONS COMMISSION  
Washington, D.C. 20554

In re Application of: )

SOUTHWEST EDUCATIONAL MEDIA )  
FOUNDATION, INC. )

File No. BLED831216BU

For Construction Permit for )  
New FM Station )  
in Lake Charles, Louisiana )

REC'D MASS MED BUR

OCT 18 1985

To: Chief, Mass Media Bureau

PUBLIC REF. ROOM

**PETITION FOR LEAVE TO AMEND**

Comes now , T. Kent Atkins, and hereby request the  
the Chief, Mass Media Bureau, to accept the attached Amendment.

In support of the following is shown:

1. The purpose of the attached amendment is to provide  
additional information requested in a letter to the Applicant  
dated August 20, 1985, and to amend the above named application  
pursuant to Section 24.235 of the Commission's Rules, adopted June

4. As the information is required to be supplied by Section 1.65 of the Commission's Rules and Regulations and as no comparative advantage to Petitioner nor prejudice to any party to

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STATEMENT OF METHOD USED TO DETERMINE POPULATION

Pursuant to Docket 20735, Appendix C,(e),(Calculation of Predicted Area and Population), the following statement is made to certify the method Southwest Educational Media used to prepare this amendment to its application for a new NCE-FM service for Lake Charles, LA.

1. The Applicant determined that the that KDFM-tv was 260.52 degrees from the proposed tower site.(See exhibit E-11)

2. With a HAAT of 960 ft., and an ERP of 100 KW, a computer generated study was made of the 90-47 dBU contours.(See exhibit E-13)

3. These projected contours were then transferred to a sectional aeronautical map.(See exhibit E-7)

4. Information was then taken from figure 2 of the FM/TV 6 Projection Ratios Based On Median Receivers, supplied by the Commission. (See exhibit E-14)

5. This information was then used in a computer generated study to predict the contours of the applicants proposed NCE-FM facility. (See exhibit E-9) It was determined that the Applicant's 81.5 dBU contour would be the most undesirable contour.

6. Pursuant to section (e), (iii), an adjustment of 6 dB was made for television antenna receiving directivity. This was added to the the 81.5 dBU contour for a total of 87.5 dBU.

7. The applicant then drew the 87.5 dBU arc defined by the range of angles, of which the applicant's site, N. Lat. 30,16,10; W. Lng. 93,03,51, is the vertex, from 110 degrees relative to

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to 250 degrees relative to that azimuth.(See Exhibit E-8)

8. The remainder of the contour was calculated to be the applicant's 81.5 dBU contour.(See exhibit E-8)

9. According to the 1980 census the proportionate figure equal to .61.11% of the population within the 87.5 dBU contour is 787.7 persons.(See exhibit E-10)

10. Likewise the proportionate figure equal to 38.89% of the population within the 81.5 dBU contour is 2026.9.(See exhibit E-10, and E-8)

11. Therefore the total population within the undesirable contour is 2815.

**Section I, Page 2**

5. Is this application mutually exclusive with the renewal application of an existing station?

☐ YES

☒ NO

If yes, state call letters and station location of existing station.

The APPLICANT hereby waives any claim to the use of any particular frequency or of the other as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934)

The APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application with which it may be in conflict.

The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations, and that all the exhibits are a material part hereof and are incorporated herein as if set out in full in the application.

**CERTIFICATION**

I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made to good faith.

Signed and dated this 29th day of September, 19 85

(This Section should not be dated and signed until all Sections and Exhibits have been prepared and attached.)

Southwest Educational Media Foundation, INC

(Name of Applicant)

By

T. Kent Atkins  
Title President

(Signature)

WILLFUL FALSE STATEMENTS MADE ON THIS  
FORM ARE PUNISHABLE BY FINE AND  
IMPRISONMENT. U.S. CODE, TITLE 18,  
SECTION 1001.

**FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT**

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The principal purpose for which the information will be used is to determine if the benefit requested is consistent with the public interest. The staff, consisting variously of attorneys, accountants, engineers, and application examiners, will use the information to determine whether the application should be granted, denied, dismissed, or designated for hearing. If all the information requested is not provided, the application may be returned without action having been taken upon it or its processing may be delayed while a request is made to provide the missing information. Accordingly, every effort should be made to provide all necessary information. Your response is required to obtain the requested Authority.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3) AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

If applicant is represented by legal or engineering counsel, state name and post office address:

EXHIBITS furnished as required by this form:

Exhibit No.	Section and Para. No. of Form	Name of officer or employee (1) by whom or (2) under whose direction exhibit was prepared (show which)	Official Title
All Technical Exhibits	V-B V-G	T. Kent Atkins T. Kent Atkins	President President

**Section I**

Approved by OMB  
3060-0034  
Expires 9/30/85

FEDERAL COMMUNICATIONS COMMISSION  
WASHINGTON, D.C. 20554

**APPLICATION FOR AUTHORITY TO CONSTRUCT OR MAKE  
CHANGES IN A NONCOMMERCIAL EDUCATIONAL  
BROADCAST STATION**

**INSTRUCTIONS**

- A. This form is to be used only in applying for authority to construct a new noncommercial educational TV, FM, or AM broadcast station or to make changes in an existing station. This form consists of this part, Section I, and the following sections:

Section II, Legal Qualifications of Broadcast Applicant  
Section III, Financial Qualification of Broadcast Applicant  
Section IV, Statement of Program Service of Broadcast Applicant  
Section V-A, AM Broadcast Engineering Data  
Section V-B, FM Broadcast Engineering Data  
Section V-C, TV Broadcast Engineering Data  
Section V-G, Antenna and Site Information  
Section VI, Equal Employment Opportunity Program

- B. PREPARE THREE COPIES of this form and all exhibits. Sign one copy of Section I. Prepare one additional copy (a total of four) of Section V-G and associated exhibits. File all the above with the Federal Communications Commission, Washington, D.C. 20554.

APPLICANTS SEEKING FOR FINANCIAL ASSISTANCE FROM NATIONAL

**THIS BLOCK FOR COMMISSION USE ONLY**

File No.

1. NAME OF APPLICANT (See Instruction D)  
Southwest Educational Media Foundation, INC.

**STREET ADDRESS**

199 West Prien Lake Rd.

CITY

Lake Charles

STATE  
LA

ZIP CODE  
70610

TELEPHONE NO. (Include area code)

(214) 296-5855

2. NAME OF PERSON TO WHOM COMMUNICATIONS SHOULD BE SENT, IF DIFFERENT FROM ITEM 1. T. Kent Atkins

**STREET ADDRESS**

7146 Bayberry

CITY

Dallas

STATE  
TX

ZIP CODE  
75249

TELEPHONE NO. (Include area code)

(214) 296-5855

3. (a) PURPOSE OF APPLICATION (Put "X" in appropriate box)

SECTION V-B

FM ENGINEERING DATA

Name of applicant Southwest Educational  
Media Foundation INC.

FOR COMMISSION USE ONLY  
File No.



8. If this is a major environmental action attach as Exhibit No. N/A a sufficient number of aerial photographs taken in clear weather at appropriate attitudes and angles to show the nature of the surrounding terrain in the vicinity of the proposed transmitter site. The photographs must be marked so as to show compass directions. Photographs taken in eight different directions from an elevated position on the ground will be acceptable in lieu of the aerial photographs if the area can be clearly shown. Give date photographs were taken.

## 9. Proposed Operation - Power

Transmitter output power	Dissipation within transmission line	Antenna input power	Effective radiated power
2.48 kw	.48 kw	2 kw	Horizontal 3 kw Vertical 3 kw

## 10. Modulation Monitor

Make	Type No.
Belar	FMM-1

10. Attach as Exhibit No. N/A a map (Sectional Aeronautical Charts where obtainable) showing the present and proposed 1mV/m (60dbu) contours. Enter the following from Exhibit above:  
Gain Area \_\_\_\_\_ Sq. mi. Loss Area \_\_\_\_\_ Sq. Mi.  
Percent change (gain area plus loss area as percentage of present area) \_\_\_\_\_ If 50% or more this constitutes a major change. Indicate in question 3(a), Section I, accordingly.

- 11(a). Attach as Exhibit No. E-3 maps showing the nature of the terrain, etc., within 25 kilometers (15 miles) of the proposed antenna location. Where obtainable, 7½ minute topographic maps, such as U.S. Geological Survey quadrangles, shall be used. If these maps are not available, the next best available maps shall be used. In addition the following shall be indicated on map:

- (1.) Proposed transmitter and main, studio locations accurately plotted;
- (2.) Transmitter location and call letters of all known radio stations (except amateur and citizens band) and the location of established commercial and government receiving stations within 2 miles of the proposed transmitter location;
- (3.) Character of the area within 2 miles of transmitter location, suitably designated as to residential, business, industrial and rural nature;
- (4.) At least eight radials each extending to a distance of ten or more miles from the proposed transmitter location.

- (b) Attach as Exhibit No. E-4 profile graphs for the radials in 11 (a)(4). Each graph shall show the elevation of the antenna radiation center. Identify each graph by its bearing from the proposed transmitter location. Direction true north shall be a zero azimuth and angles measured clockwise. Show source of topographical data and scale of miles on each.

12. From the profile graphs in 11(b), for the eight mile distance between two and ten miles from the proposed transmitter location, and in accordance with the procedure prescribed in Section 73.313 of the Commission's Rules, supply the following tabulation of data: (If proposed location is adjacent to the sea coast or the Great Lakes omit from this tabulation all radials which lie over water substantially the entire distance between two miles from the proposed transmitter location and the predicted 50 microvolt per meter contour.)

Radial bearing (degrees true)	Average elevation of radials (2-10 mi.) above mean sea level	Height of antenna radiation center above average elevation of radial (2-10 mi.)	Predicted distance to the 1mV/m contour	Predicted distance to the 50 uv/m contour
<u>0°</u>	<u>See Exhibit #1</u>			
<u>45°</u>				
<u>90°</u>				
<u>135°</u>				
<u>180°</u>				
<u>225°</u>				
<u>270°</u>				
<u>315°</u>				

Antenna height above average terrain  
(Average of above listed heights)

Horizontal 328 ft.  
Vertical 328 ft.

## Allocation Studies

(See Subpart C of Part 73 of the Commission's Rules and Regulations)

13. Is the proposed antenna location within 320 kilometers (199 miles) of the common border between the United States and Mexico?

☐ Yes ☒ No

If Yes, attach as Exhibit No. \_\_\_\_\_ a showing of compliance with all provisions of the Agreement between the United States of America and the United Mexican States concerning Frequency Modulation Broadcasting in the 88 to 108 MHz band.

14. With regard to stations within 320 kilometers (199 miles) of the common border between the United States and Mexico, attach as Exhibit No. \_\_\_\_\_ information required in 1.

N/A

15. If the proposed operation is for a channel in the range from channel 201 through 220 (88.1 through 91.9 MHz), then with regard to stations more than 320 kilometers (199 miles) from the common border between the United States and Mexico or if this proposed operation is for a class D station in the range from Channel 221 through 300 (92.1 through 107.9 MHz.) attach as Exhibit No. \_\_\_\_\_ a complete allocation study to establish the lack of prohibited overlap of contours involving these stations. The allocation study should include the following:

- (a) The normally protected, the interference-free and the interfering contours for the proposed operation along all azimuths.
- (b) Complete normally protected interference-free contours of all other proposals and existing stations to which objectionable interference would be caused.
- (c) Interfering contours over pertinent arcs of all other proposals and existing stations from which objectionable interference would be received.
- (d) Normally protected and interfering contours over pertinent arcs, of all other proposals and existing stations, which require study to show the absence of objectionable interference.
- (e) Plot of the transmitter location of each station or proposal requiring investigation, with identifying call letters, file numbers and operating or proposed facilities.
- (f) When necessary to show more detail, an additional allocation study will be attached utilizing a map with a larger scale to

18. Is the proposed operation on Channel 218, 219 or 220?

☒ Yes ☐ NoIf Yes, attach as Exhibit No. \_\_\_\_\_  
Channels 221, 222, and 223.Information required in 1/ regarding separation requirements with respect to stations on

E-6-C

19. Is the proposed station for a channel in the range from Channel 201 to 221 (88.1-91.9 MHz) and the proposed antenna location within the Grade B contour of a channel 6 television station or sufficiently near the Grade B contour that a question of interference to channel 6 may be raised?

☐ Yes ☒ NoIf Yes, attach as Exhibit No. E-7 a map showing the Grade B contour of the television station and the proposed antenna location. Also include discussion of the possibility of interference to the Channel 6 station and the steps proposed to remedy any interference which may occur.

See E-8 E-9 E-10 E-11

20. Is the proposed station for a channel in the range from Channel 221 to 300 (92.1 - 107.9 MHz)?

☐ Yes ☒ NoIf Yes, attach as Exhibit No. \_\_\_\_\_ information required in 1/ (Except for class D (secondary) proposals).

21. If the proposed antenna location is in or near a populated area, attach Exhibit No. \_\_\_\_\_ a discussion of the possibility of blanketing and the steps proposed to remedy any interference which may occur.

E-12

22. Environmental Statement, See Part 1, Subpart I of the rules

Would a Commission grant of your application be a major action as defined by Section 1.1305 of the Commission's Rules?

☐ Yes ☒ NoIf Yes, attach as Exhibit No. N/A the required statement in accordance with Section 1.1311 of the Commission's Rules.

If No, explain briefly.

Antenna to be side mounted on an existing tower and will not increase height.

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

Date September 29, 1985☐ Technical Director☐ Registered Professional Engineer☐ Consulting Engineer☐ Chief Operator☒ Other (Specify)

Applicant

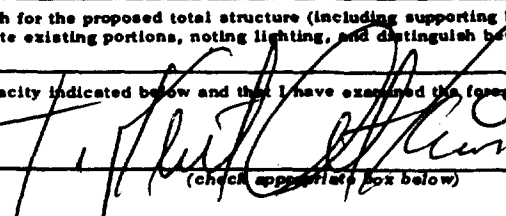
Signature

Address 7146 Bayberry

(Include ZIP Code)

Dallas, Texas 75249Telephone No. (214) 296-5855

(Include Area Code)

Broadcast Application		Section V-G (Antenna)	
<b>ANTENNA AND SITE INFORMATION</b> <small>(See instruction B, Section 1)</small>		<b>NAME OF APPLICANT</b> Southwest Educational Media Foundation, Inc.	
<b>CLASS OF STATION</b> A		<b>CALL SIGN</b> New	
<b>STATION LOCATION</b> SW corner of the intersection of FM 3059 and Mnahide Rd.			
<b>FACILITIES REQUESTED</b>  Side Mounted Antenna on approved tower		<b>PURPOSE OF APPLICATION</b> (Put "X" in appropriate box) <input type="checkbox"/> a. New antenna construction <input type="checkbox"/> b. Alteration of existing antenna structure <input checked="" type="checkbox"/> c. Change in location	
<b>LEGAL COUNSEL</b>		<b>3. Has the FAA been notified of proposed construction?</b> (Not necessary to file FCC Form 714.)  <input type="checkbox"/> YES If yes, give date and office where notice was filed.  <input checked="" type="checkbox"/> No	
<b>ADDRESS</b>			
<b>CONSULTING ENGINEER</b> T. Kent Atkins			
<b>ADDRESS</b> 7146 Bayberry, Dallas, TX 75249			
<b>1. LOCATION OF ANTENNA</b>		<b>4. FEATURES OF SURROUNDING TERRAIN</b>	
<b>STATE</b> LA	<b>CITY OR TOWN</b> Calcasieu	Attach as Exhibit No. E-3 a chart on which is plotted the exact location of the antenna site, and also the relative location and height of any natural formation or existing man-made structures (trees, water tanks, towers, buildings, etc.) which, in the opinion of the applicant, would tend to shield the antenna from aircraft. The chart used shall be a 7.5 or 15 minute series topographic quadrangle (choice depending upon proximity of the antenna site to landing areas) or full scale photo copy. On the chart include 1) a scale of miles, 2) sufficient latitude and longitude lines, clearly labeled, so that the location of sites may be verified, and 3) all identifying map information. These charts may be purchased from the U.S. Geological Survey, Washington, D.C. 20242 or, for areas west of the Mississippi River, from the U.S. Geological Survey, Denver, Colorado 80225.  (Exception - Where the proposed antenna site is within the boundary of landing area, submit a self-made, large scale map showing antenna site runways and existing man-made structures).	
<b>Exact antenna location (street address). If outside city limits, give name of nearest town and distance and direction of antenna from the town.</b>			
<b>Geographical coordinates (to nearest second). For directional antenna give coordinates of center of array. For single vertical radiator give tower location.</b>			
<b>North latitude</b> 30° 16' 10"	<b>West longitude</b> 93° 03' 51"		
<b>2. Is the proposed site the same or immediately adjoining the transmitter-antenna site of other stations authorized by the Commission or specified in another application pending before the Commission?</b>  <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If yes, give call sign: _____			
<b>5. List all landing areas within 10 miles of antenna site. Give distance and direction to the nearest boundary of each landing area from the antenna site.</b>			
<b>Landing Area</b>		<b>Distance</b>	<b>Direction</b>
(a) East Lake Charles	6 mi	SW	
(b) Chole	5 mi	W	
(c)			
<b>6. Description of antenna system (If directional, give spacing and orientation of towers).</b> Shively Model 6813 - 3-Bay FM Antenna - Center of Radiation 326,125' AGL			
<b>Type</b>			
<b>Description of tower(s)</b>			
<b>Self-supporting</b>		<b>Guyed</b> <input checked="" type="checkbox"/>	
<b>Tubular (Pole)</b>			
<b>Tower (height figures should include obstruction lighting)</b>	#1	#2	#3
<b>Height of radiating elements</b>	326,125'		
<b>Overall height above ground</b>	480'		
<b>Overall height above mean sea level</b>	500'		
<b>7. If a combination of AM, FM, or TV operation is proposed on the same multi-element array (either existing or proposed) attach as Exhibit No. a horizontal plan for the proposed antenna system, giving heights of the elements above ground and showing their orientation and spacing in feet. Clearly indicate if any towers are existing.</b>			
<b>8. Attach as Exhibit No. #5 a vertical plan sketch for the proposed total structure (including supporting building if any) giving heights above ground in feet for all significant features. Clearly indicate existing portions, noting lighting, and distinguish between the skeletal or other main supporting structure and the antenna elements.</b>			
I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.			
September 29, 1985 <small>(date)</small>		Signature  <small>(check appropriate box below)</small>	
<input type="checkbox"/> Technical Director		<input type="checkbox"/> Chief Operator	
<input type="checkbox"/> Registered Professional Engineer		<input checked="" type="checkbox"/> Consultant	
Applicant			

CERTIFICATION OF SITE AVAILABILITY

1. The applicant certifies that it has reasonable assurance in good faith that the site or structure proposed in Items 1 and/or 2, Section V-G, Fcc Form 301, as the location of its transmitting antenna, will be available to the applicant for the applicant's intended purpose.

YES ☒ X

NO ☐

If "NO", explain fully:

2. If reasonable assurance is not based on applicant's ownership of the proposed site or structure, applicant or the applicant's agent certifies that it has obtained such reasonable assurance by contacting the owner or person possessing control of the site or structure.

Terry Benson  
Name of Person Contacted

(318) 436-7573  
Telephone Number

Person contacted (check one):

Owner ☒

Owners ☒

Agent ☐

☒ X

Other (specify)

SEPTEMBER 28, 1985

EXHIBIT • 1

SECTION V-B, 15 OF FCC FORM 340

SOUTHWEST EDUCATIONAL MEDIA FOUNDATION

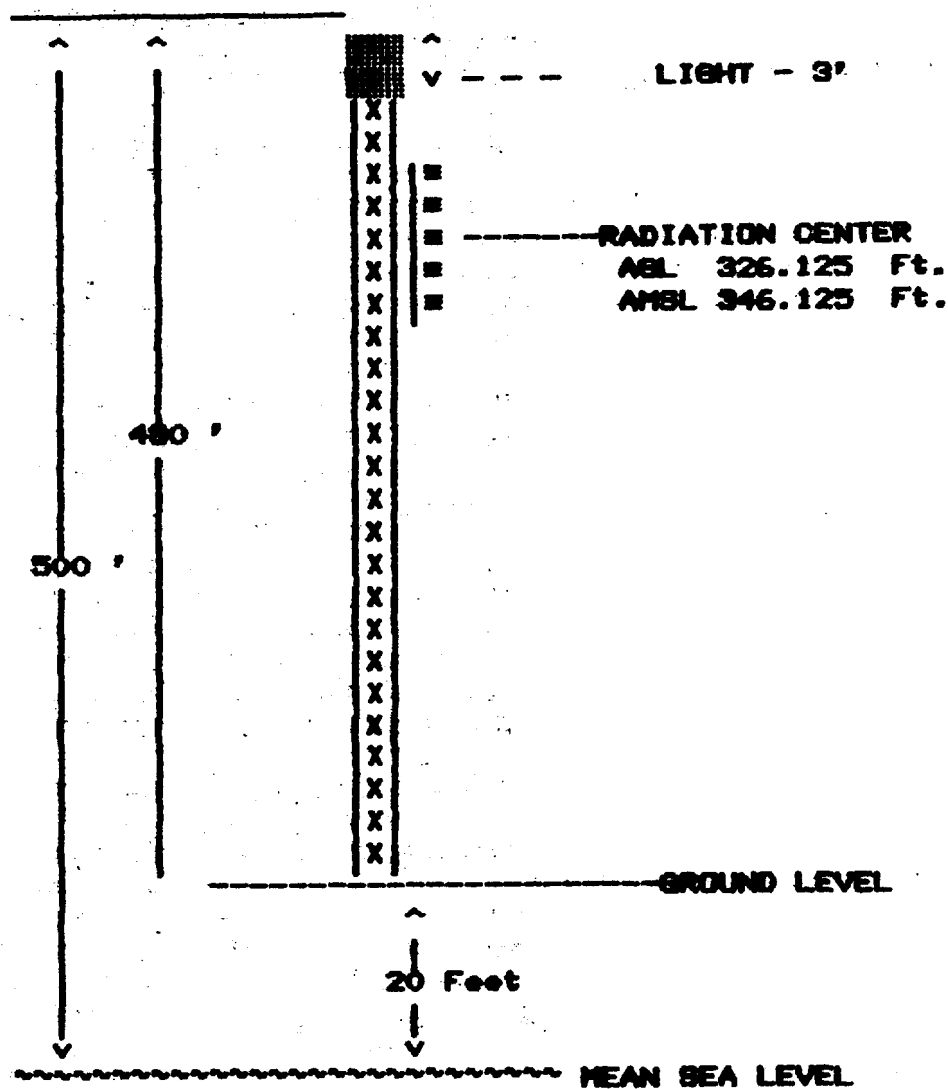
LAKE CHARLES LOUISIANA

CHANNEL 210 A

SEPTEMBER 28, 1985

EXHIBIT # 5

VERTICAL PLAN SKETCH OF TOTAL STRUCTURE CHANNEL 219 A



NOTE : NOT TO SCALE

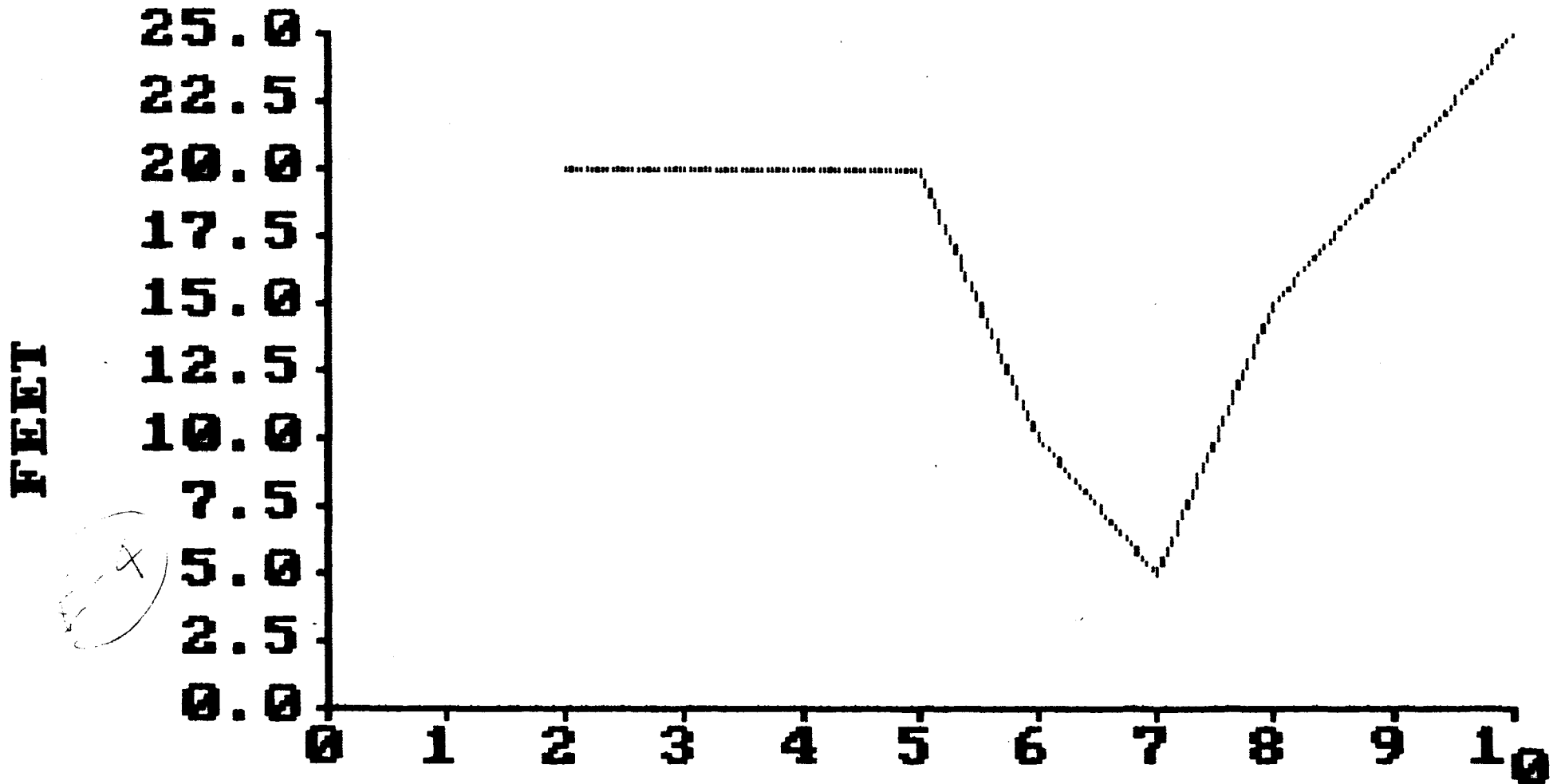
ELEMENT DEPICTIONS SYMBOLIC

SHIVELY LABORATORIES FM ANTENNA MODEL 6813  
3 BAYS - POWER GAIN 1.5 (1.76 db)  
VERTICAL APPERTURE 23.7 FEET

SEP. 29 1985

LAKE CHARLES LOUISIANA  
SOUTHWEST EDUCATIONAL MEDIA FOUNDATION

# LAKE CHARLES LA -0-



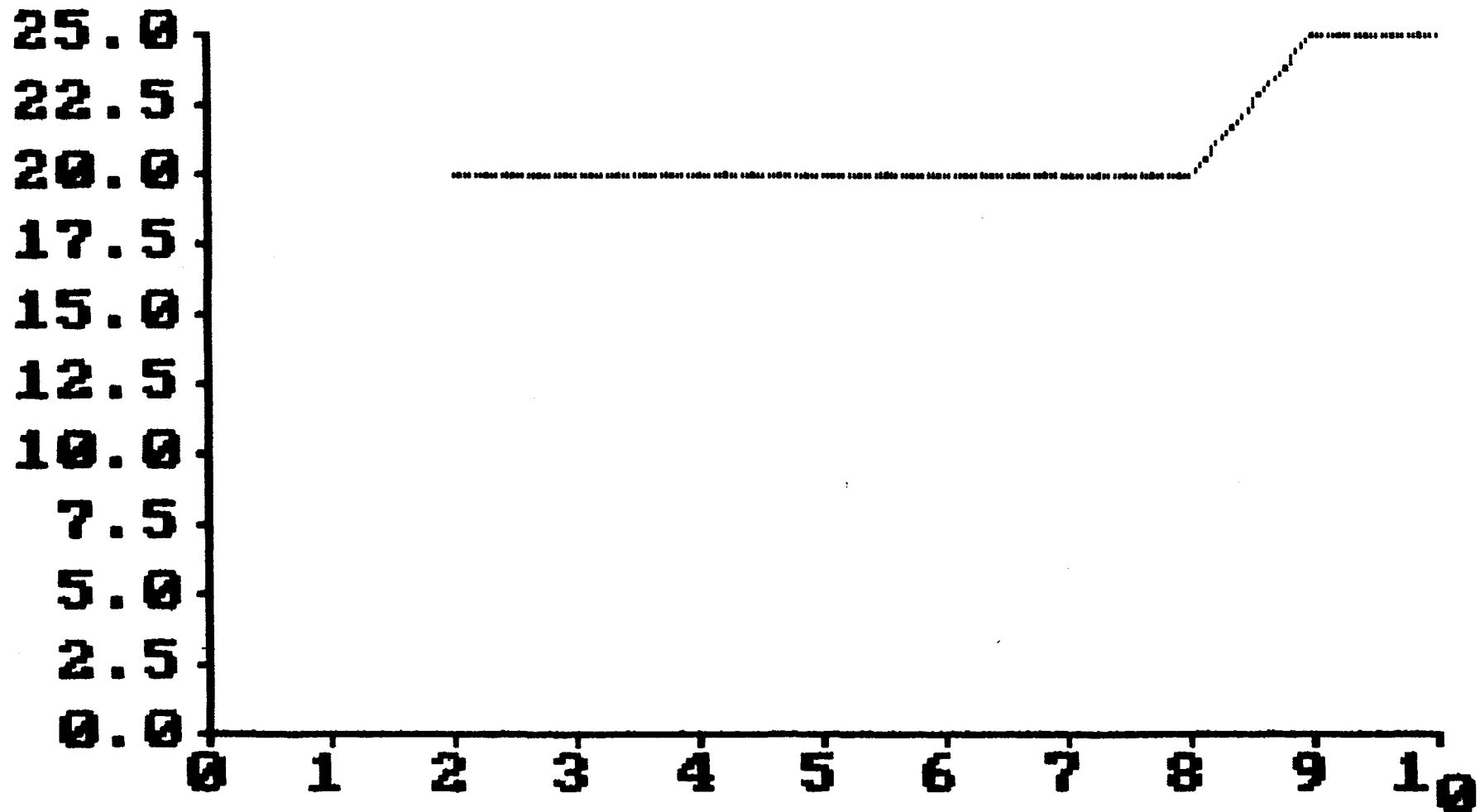
SEP. 29 1985

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\* Exhibit E-4 \*  
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**M I L E S**



# LAKE CHARLES LA -45-



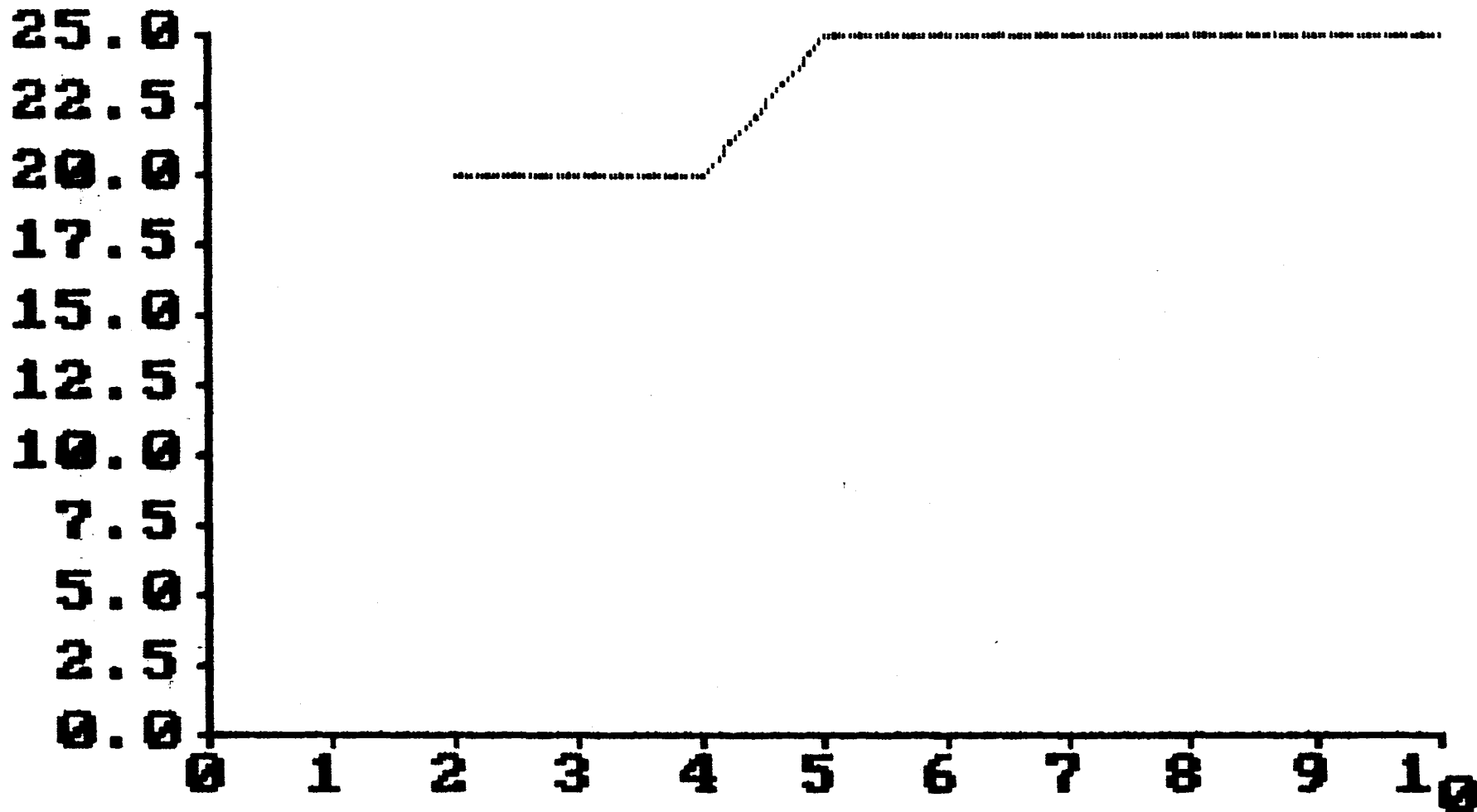
SEP. 29 1985

SEP. 29 1985

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 \* Exhibit E-4 \*  
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MILES

# LAKE CHARLES LA -90-

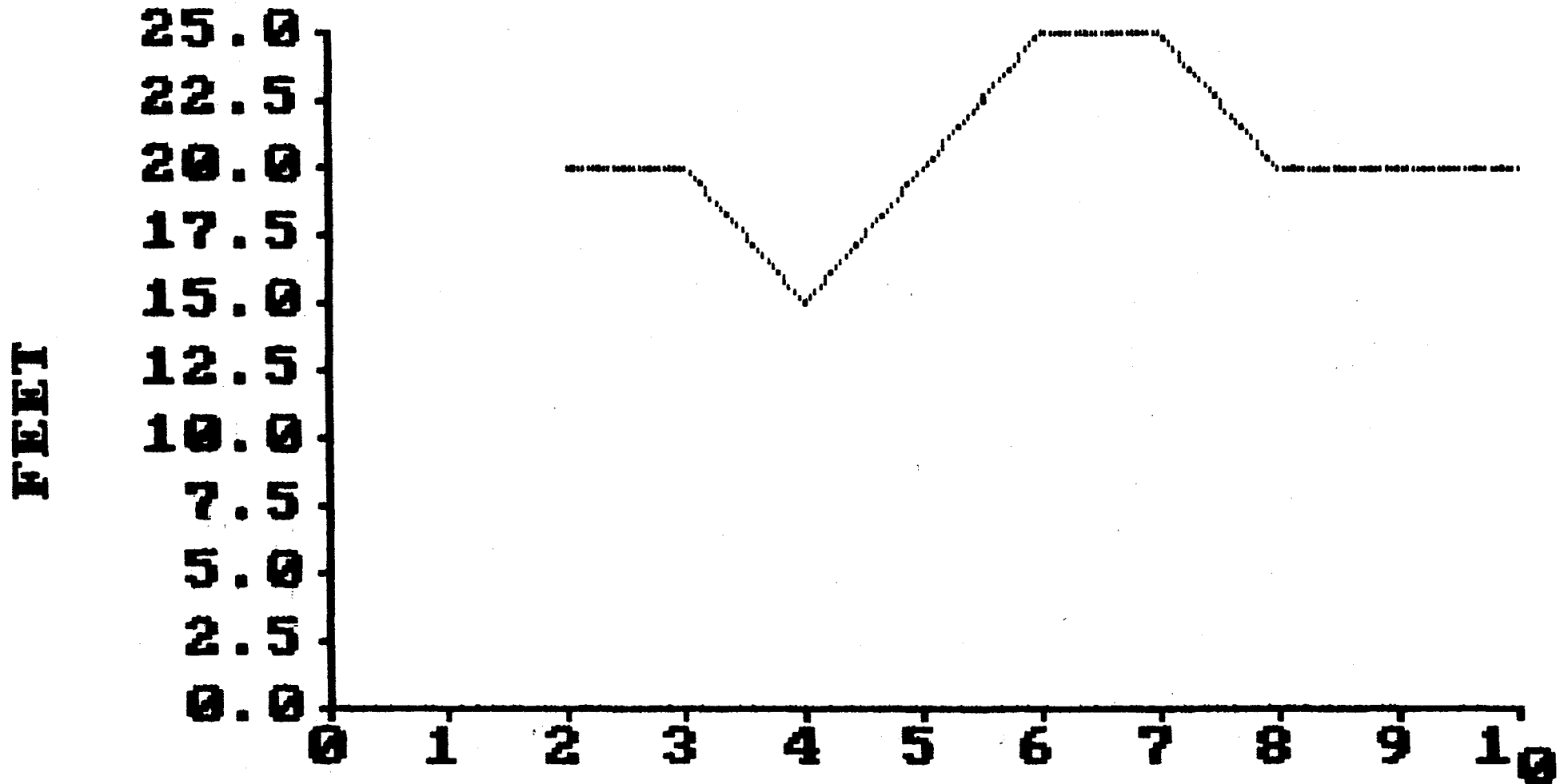


SEP. 29 1985

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 \* Exhibit E-4 \*  
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MILES

# LAKE CHARLES LA -135-

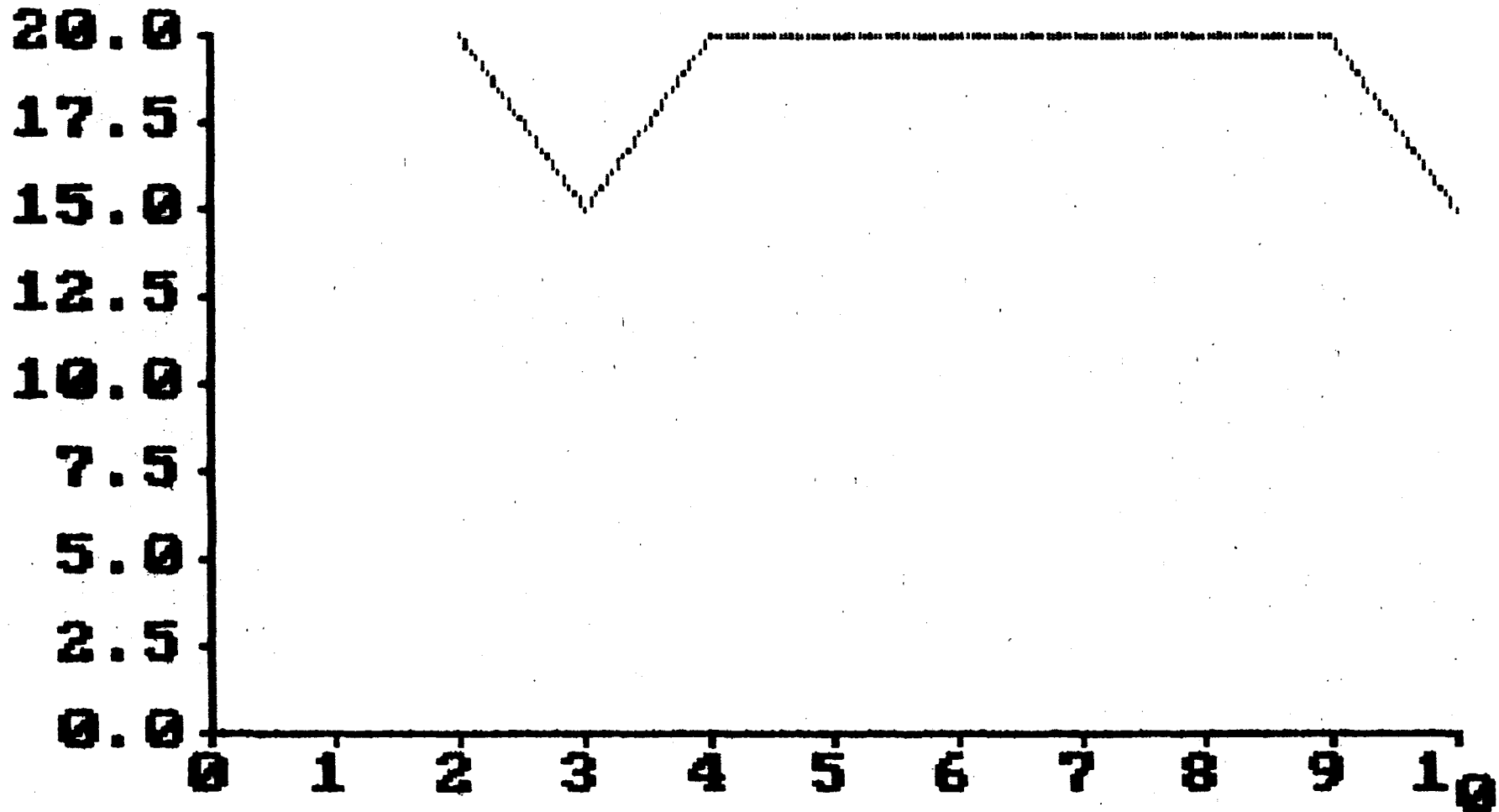


SEP. 29 1985

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\* Exhibit E-4 \*  
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MILES

# LAKE CHARLES LA -180-



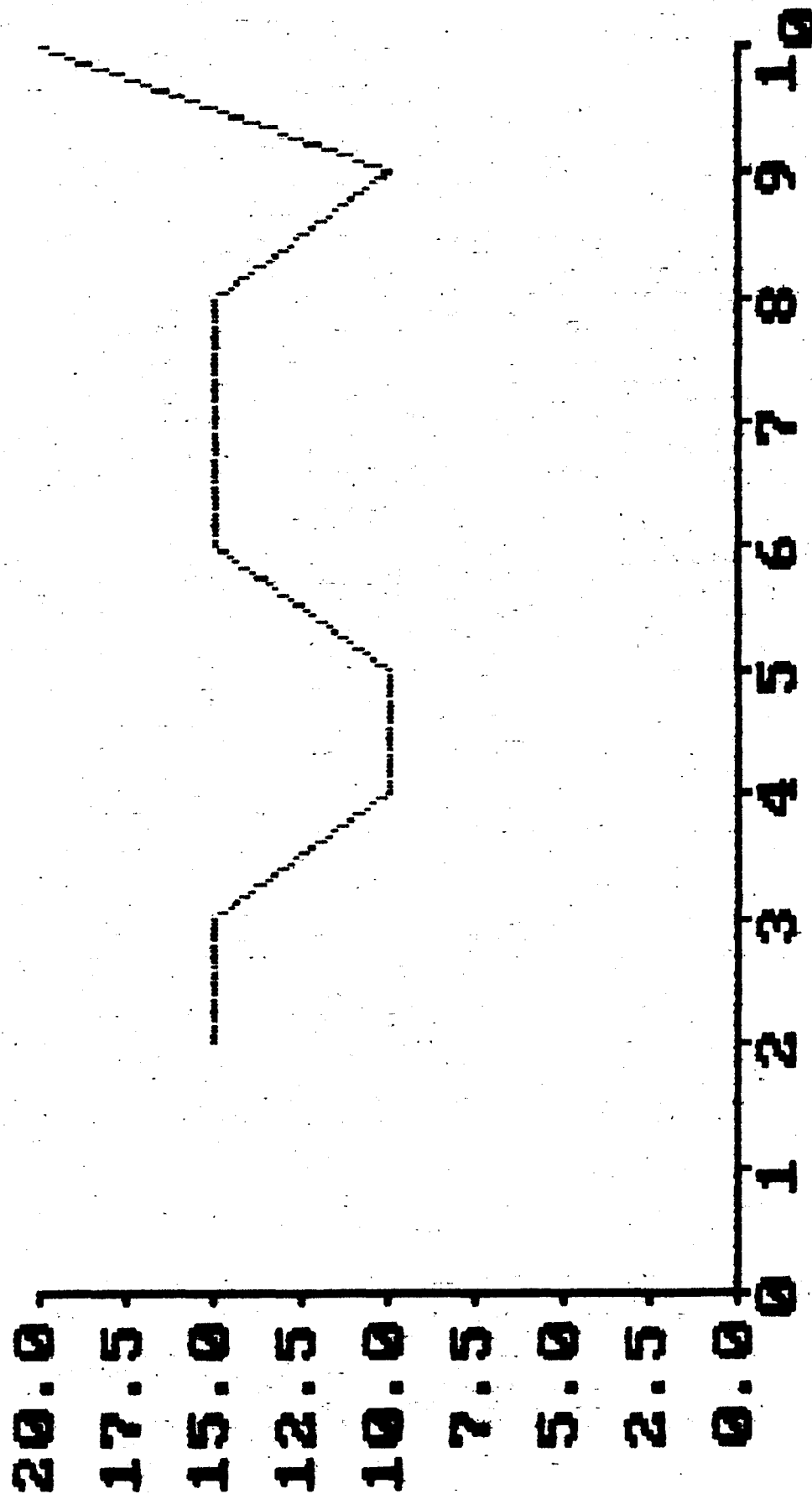
SEP. 29 1985

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 \* Exhibit E-4 \*  
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**MILES**

LAKE CHARLES LA -225-

# LAKE CHARLES LA -270-



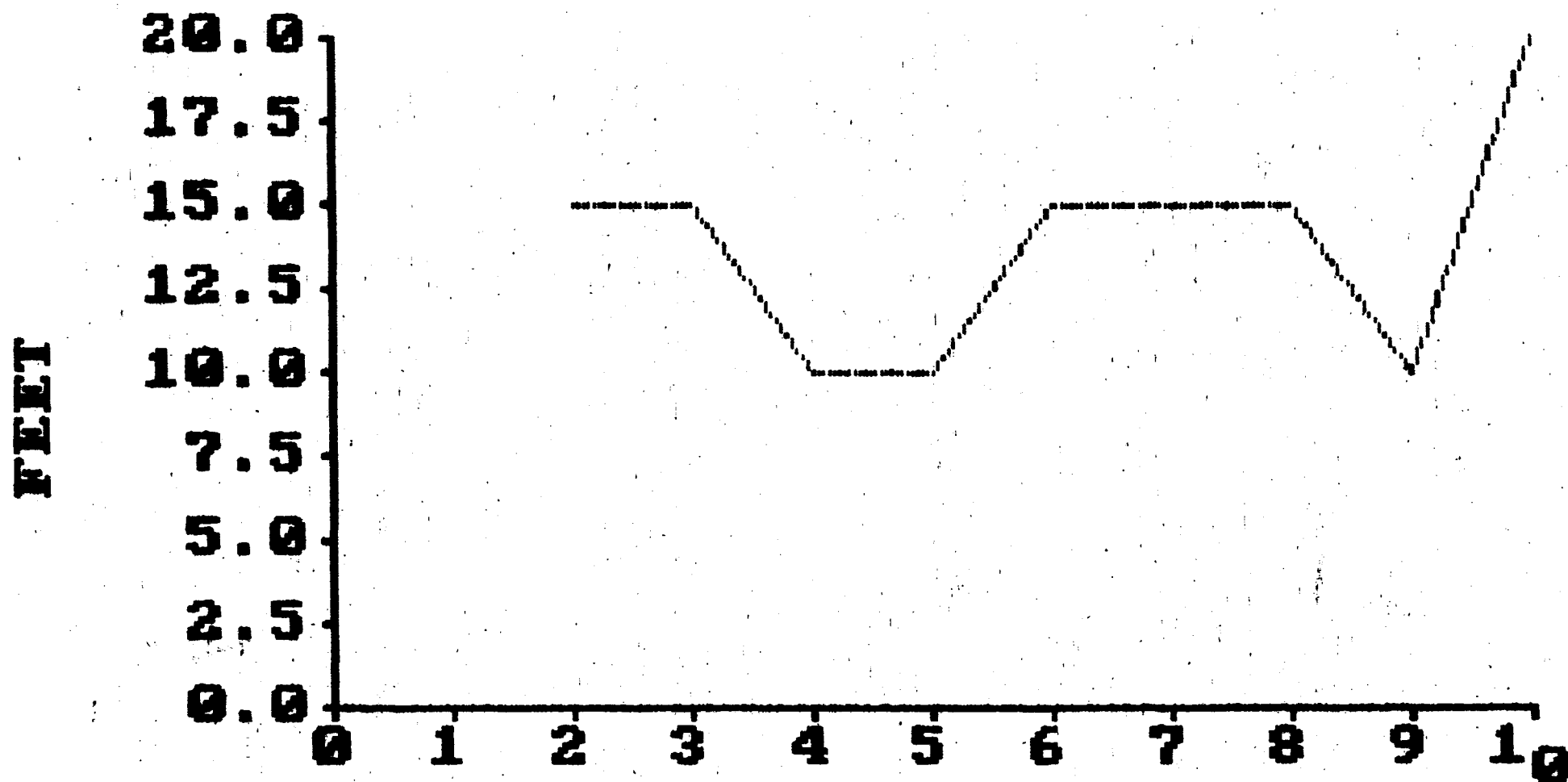
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 \* Exhibit E-4 \*  
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SEP. 29 1985

MILES

FEET

# LAKE CHARLES LA -315-



SEP. 29 1985

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\* Exhibit E-4 \*  
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**MILES**

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\* Exhibit E-6 \*  
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T. KENT ATKINS  
DALLAS, TEXAS

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FM STUDY (NEW RULES ADOPTED 3/1/84) SEPTEMBER 26, 1985

JOB TITLE : LAKE CHARLES

CHANNEL 219A

COORDINATES : 30-16-10 93-03-51



T. KENT ATKINS  
DALLAS, TEXAS

\*\*\*\*\*  
\* Exhibit E-6 \*  
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PAGE 2

FM STUDY (NEW RULES ADOPTED 3/1/84) SEPTEMBER 26, 1985

JOB TITLE : LAKE CHARLES

CHANNEL 219A

COORDINATES : 30-16-10 92-02-51